UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/510,680	07/20/2005	Maria Prat Quinones	09605.0003	4960
22852 FINNEGAN I	7590 01/12/200 JENDERSON FARAF	7 BOW, GARRETT & DUNNER	EXAMINER	
LLP	IENDERSON, PARAL	· ·	CHU, YONG LIANG	IG LIANG
	RK AVENUE, NW N, DC 20001-4413		ART UNIT PAPER NUMBER	
WASHINGTO	11, DC 20001 4413		1626	
			·	
			MAIL DATE	DELIVERY MODE
			01/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

Supplemental Notice of Allowability Application No. 10/510,680 Examiner Yong Chu Applicant(s) PRAT QUINONES ET AL. Art Unit 1626

•				
	Yong Chu	1626		
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS	
1. X This communication is responsive to 7/27/2006.				
2. X The allowed claim(s) is/are 1-10,12-20,23,24,26, and 33 (n	enumbered as 1-23).			
3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	been received. been received in Application No cuments have been received in this i	national stage applica		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	at be submitted.			
(a) including changes required by the Notice of Draftspers		948) attached		
1) hereto or 2) to Paper No./Mail Date		,	•	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	•	office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should.be written on the drawir he header according to 37 CFR 1.121(c	ngs in the front (not the	e back) of	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	SIT OF BIOLOGICAL MATERIAL TO THE DEPOSIT OF BIOLOGICA	nust be submitted. I AL MATERIAL.	Note the	
Attachment(s)				
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary (PTO-413), Paper No./Mail Date			
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛛 Examiner's Amendr			
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	ent of Reasons for Allo	owance	
5. 2.5.6g164. maio. a.	9. Other			

Art Unit: 1626

DETAILED ACTION

This Office action replaces the Office actions mailed out on 10/11/2006 and 11/21/2006 to correct the dependent claim 33 to 26. Claims 11, 21, 22, 25, 30, and 31 have been canceled by the Amendment filed on 27 July 2006. Claims 1, 6-9, 18-20, and 23-24 have been amended by Amendment filed on 27 July 2006. Therefore, claims 1-10, 12-20, 23-24, 26, and 32-34 are pending in this application.

Response to Amendment

The Amendments by Applicants' representative Anthony C. Tridico dated on 27 July 2006 has been entered.

<u>IDS</u>

The foreign patent document WO 01/04118 as cited in the information Disclosure Statement submitted in 25 May 2005 has been considered. Please refer to Applicant's copies of the PTO-1449 submitted herewith.

Rejection over claims 1-4,10,14,26 and 32-34 under 35 U.S.C. §102(e)

The earliest effective prior art date for Mehta et al. is 23 December 2002. The current application was filed on 11 April 2003, but claimed priority to Spanish Patent Application No. 200200889 filed on 16 April 2002. The Applicants has submitted a certified English translation of the Spanish language foreign priority document, which overcomes the prior art date. The amended claims are supported in the priority document. Therefore, the rejection over claims 1-4, 10, 14, 26, and 32-34 is withdrawn.

Art Unit: 1626

Rejection under 35 U.S.C. §112, second paragraph

Applicant's argument filed on 27 July 2006 on the indefiniteness of claims 1-10, 12-20, 23-24, 26 and 32-34 due to improper use of proviso has been fully considered and found persuasive. The rejection over claims is withdrawn.

Applicant's argument over rejection of claim 32 on the grounds that the phrase "a compound effective in the treatment of a respiratory,..." is found not persuasive. Claim 32 is rejected as a composition comprising a compound as claimed in claim 1; and a compound effective in the treatment of respiratory, urological or gastrointestinal disease or disorder as indefiniteness. The specification does not define what kind of compounds may have these kind of claimed proprieties. Some of the compounds which are effective in the treatment of respiratory, urological or gastrointestinal disease or disorder may be found after the filing of this instant application. Therefore, the rejection over claim 32 is maintained. Applicants have agreed to cancel claim 32.

Applicant's argument over rejection of claim 33 on the grounds that the phrase "at least one compound chosen from: ß2 agonist, antiallergic drug, .." is found not persuasive. The argument on the grounds that the compound such as ß2 agonist can be found on MedicineNet.com and one of ordinary skill in the art would understand what ß2 agonist means. However, there are many compounds can be ß2 agonist, one of ordinary skill in the art may not know the definition of all compounds which are ß2 agonist. The specification fails to teach the definition of these compounds. In addition, some of the ß2 agonists compounds may be found after the filing of the instant

Art Unit: 1626

application. Applicants have agreed to amend the claim 33 to include steroid as the additional effective ingredient in the claimed composition. The rejection is maintained.

Applicant's argument over rejection of claim 34 on the grounds that the term "admixture" is defined as a mixture is found persuasive. The rejection over claim 34 is withdrawn. However, claim 34 is a duplicate of claim 26. Applicants have agreed to cancel claim 34.

Examiner's amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended with authorization from Applicants representative Anthony C. Tridico on 25 September 2006 as follows:

Delete claims 32 and 34 of the Amendment filed on 27 July 2006.

In claim 1, line 9 page 4 of the Amendment filed on 27 July 2006, insert -- and -- after "branched optionally substituted lower alkyl groups;".

In claim 33, delete line 3 and line 4 " (ii) at least one compound chosen from: ..

(LTD4) antagonist.", and insert -- (ii) at least one compound chosen from steroid.--.

In claim 33, line 1 delete "32" after "A composition according to claim ", and insert -- 26--.

Art Unit: 1626

Reasons for Allowance

The present invention is directed to a compound of the formula (I)

$$R_1$$
 R_2
 R_3
 R_4
 R_4

 $-S(O)_{2}$; m is an integer from 0 to 8; n is an integer from 0 to 4; \mathbb{R}^4 is a lower alkyl; B is

phenyl, naphthalenyl,..; and \mathbf{D} is \mathbf{R}_{11} , wherein \mathbf{R}^{9} is phenyl, 2-furyl, 3-furyl, 2-thienyl or, 3-thienyl; and \mathbf{R}^{10} is phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, or \mathbf{C}_{3} - \mathbf{C}_{7} cycloalkyl.

The closest prior art of record is WO 01/04118 (Fernandez Forner et al.).

Fernandez Forner et al. disclose a compound of formula

R₂ C
$$(CH_2)n$$
 A $(CH_2)m$ N $+$ $(CH_2)m$

is an integer from 0 to 8; **n** is an integer from 0 to 4; **C** is phenyl, naphthalenyl,..; and **B**

Page 6

Application/Control Number: 10/510,680

Art Unit: 1626

$$-N^{+}$$
 (prior art) is different from pyrrolidinium (instantly

claimed compound) as part of the core structure.

Therefore, claims 1-10, 12-20, 23-24, and 26 are allowed.

Telephone Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yong Chu whose telephone number is 571-272-5759. The examiner can normally be reached on 7:00 am - 3:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph K. M[©]Kane can be reached on 571-272-0699. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 1626

Yong Chu, Ph.D. Patent Examiner Art Unit 1626

KAMAL A. SAEED, PH.D. PRIMARY EXAMINER

Joseph K. M^cKane Supervisory Patent Examiner Art Unit 1626

Page 7